

AVIATION

The Oldest American Aeronautical Magazine

JANUARY 31, 1927

Issued Weekly

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R.O.T.C. officers off for a long distance bombing expedition

(See R. & M. Photo.)

VOLUME
XXII

SPECIAL FEATURES

NUMBER
5

HOW MANY COMMERCIAL AIRPLANES BUILT IN 1926?
THE COST OF OPERATING THREE-ENGINE PLANES
THE AIR CORPS UNIT AT N. Y. UNIVERSITY

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THE "WASP"

425 HP at 1900 RPM
WEIGHT 680 lbs.

Another "WASP" Success

The "Wasp" has definitely proven its superiority to the water cooled powerplants in the Navy single-place fighters.

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LONG ISLAND CITY, NEW YORK

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With the Editor

Legislation regarding America's position relative to other countries as the development of commercial aviation is now being decided. The American public is beginning to realize that this country has developed commercial aviation to a similar extent, even if along different lines from the development abroad, but there is no doubt that the feeling is prevailing that our commercial aviation is far less important than is the civil aviation in Europe. Even those closely acquainted with aviation in this country undoubtedly have this feeling. But we only have to glance down the figures published in this issue of the number of newly designed commercial aircraft produced during 1926, to realize completely our place on this subject.

All these planes have been produced for private ownership and commercial flying assisted by very Government activity. As brought out elsewhere in this issue, the Aeronautics Branch, Department of Commerce, is making good headway with the job of lifting the airways throughout the country and in Washington considerable experimental work is being carried out in the development of the radio beacon. With all this real encouragement we fully expect to be able to publish even more startling figures of aircraft products at the conclusion of 1927.



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THE PERFORMANCE MADE THE DEMAND

Write for Details

THE ADVANCE AIRCRAFT COMPANY
TROY, OHIO

In 1926 WRIGHT WHIRLWIND ENGINES Flew More Than 1,750,000 MILES In Commercial and Private Airplanes

Whirlwinds Have In 1926;

In Competition

Made first North Pole flight Commander Eldred Rusk in Packard 3 engine plane.

Won 1st place Annual Reliability Tour of 5,515 miles in Packard plane carrying 600 lbs. per load, average speed 124½ m.p.h.

Won 2nd place Annual Reliability Tour in Doherty Varsity Jetty carrying 800 lbs. per load, average speed 113½ m.p.h.

Won 3rd place Annual Reliability Tour in Bonanza "Columbus" carrying 640 lbs. per load, average speed 107 m.p.h.

Won Transcontinental Race for Doherty Varsity Jetty at Philadelphia in "Wright Whirlwind" carrying 1,000 lbs. per load at 112½ m.p.h.

Won Light Commercial Race at Philadelphia carrying 1,175 lbs. per load at 111.55 m.p.h.

Won 1st out of 14 days they competed for Philadelphia. Won 1st Race from St. Thomas 1000 High Air Motor in Ryan 15.

Made Nonstop Portland, Oregon to Los Angeles flight 1,850 miles in 24 hrs. 20 mins. in Ryan 16-1 Monoplane of Pacific Air Transport.

Can still 600 lbs. per load at Philadelphia at 114.9 m.p.h. in the second 3-engine aircraft built by the Ford Motor Company.

In Daily Service Flown for

Philadelphia Rapid Transit Company—500,000 engine miles with 375 lbs. cost of engine parts including 3000 lbs. fuel per engine hour on their 175 mile route—Whirlwind pilot.

These performances recommend to pilots
the Wright Whirlwind, 200 H.P. Air-Cooled Engine for
SAFETY — ECONOMY — DURABILITY



That's why
More Pilots fly them!

WRIGHT AERONAUTICAL CORPORATION, PATENTERS, NEW JERSEY, U. S. A.

Wilmington, Norfolk, used 12 WHIRLWINDS exclusively in 1926.

Vacay Air Mail Service—215,000 miles with 816 cost of engine parts in daily 100 mile route across the Rocky Mountains from Salt Lake to Reno of Whirlwind using 7 WHIRLWINDS exclusively in 1926.

Continental Air Transport—175,000 miles with 2175 cost of engine parts in daily 100 mile route New York to Boston, using 4 WHIRLWINDS exclusively on this route in Packard and Caterpillar planes and 5 in the Packard Aviator.

Pacific Air Transport—215,300 miles on their 1,121 mile route Los Angeles to Seattle using a WHIRLWIND exclusively in Ryan and Doherty Jetty planes.

Northwest Airways since October—90,000 miles on their route 377 miles Chicago to St. Paul using WHIRLWINDS exclusively in Bonanza "Dorcas".

Blondie Air Transport—100,000 engine miles in part exclusively on their 307 mile route Chicago to Dallas in Travel Air, Ford—3 engine plane and Wright Whirlwinds.

Florida Airways—15,000 miles in part exclusively on their 405 mile route Orlando to Miami using 4 WHIRLWINDS in Bonanza and Caterpillar planes. General 10,000,000 currency also made Ryan Airplane the day after the hurricane, in Bonanza "Dorcas".

Canadian Air Express—40,000 miles on their route in Red Lion, Canada, using 4 WHIRLWINDS exclusively in Bonanza "Dorcas" and Caterpillar.

Red Delford Dennis, Donahoe Agass, Reginald, Charles Dickinson, Henry Diggins at Wilmington and Fresno, Canadian and American Transcontinental Company, Bennett & Rotherg of Alaska, General Controls Airlines, Jacksonville, Alaska and many others.



Vol. XXII

JANUARY 31, 1927

No. 5

An Unjust Rule

THIS CREDITING in the United States of the records made at Novosibirsk, at the end of the Siberian Express Race by Major de Bonardis, the Italian pilot in an Italian seaplane, powered with an Italian engine is not only unjust to our sportsmanlike competitors but creates an embarrassing situation for America. The rules of the Federation Aéronautique Internationale give to the country where a record is held as starts the honor of the victory regardless of the nationality of the pilot or the aircraft.

The protest to be made by the National Aeronautic Association against this record situation will be instantly replied by every American seaplane and continuously supported by the public.

Before a decision is reached correcting this inequality, responsible persons in this country should do everything within their power to make our Italian friends feel that our sportsmanship is worthy of the highest effort they made. The acceptance of the record can be refused and a protest made against placing it in the list of American achievements.

The F.A.I. may have had excellent reasons for adopting this rule but it has been ill advised. If, in the future, American pilots and American aircraft making records in other countries of the World do not bring them to this country, there will be little or no incentive to enter in records abroad in the future. We salute our record Italian pilots and hope that the inquiry will be quickly made right.

The Seaplane in Commercial Air Transport

FOR REASONS into which it is not necessary to enter at this time, the seaplane, and particularly the large flying boat, has not been developed for commercial air transportation to the same extent as has been the airplane. While it is true that certain individuals are to support services have been and are still being operated with seaplanes, both of the passenger and of the flying boat type, it can safely be said that the seaplane is the most common type of aircraft employed in air transportation operations. Viewed from the standpoint of geography this is somewhat curious in view of the fact that by far the larger part of the Earth's surface is water and it would seem inevitable, therefore, in strict water to be under an almost water boundary this land. It should be remembered that aircraft are only concerned materially with the type of terrain flown over when it comes to having to make a landing.

Yet, in spite of this apparent neglect of the seaplane in air transport fields, landowners are frequently being piling up to draw attention to the possibilities of the large

seaplane in commercial aviation. Recently, two French men, Lieutenant Bernard and Gillard, left St. Louis de Mer, near Marseilles, France, for Madagascar, the French colony island off the coast of South Africa, in two Latham six-passenger twin flying boats with single 425 hp. Jupiter engines. Lieutenant Bernard was unfortunate in experiencing trouble during the first thousand miles or so but Lieutenant Bernard continued the flight, arriving eventually at Majunga, Madagascar, and has since returned to French East Africa.

The significant feature of this flight of approximately 20,000 miles is that a second flying boat was employed in spite of the fact that the route by short oceanic routes. Leaving Marseilles, the East coast of Spain was followed, and the Northwest coast of Africa was followed as far as St. Louis, on the Senegal coast. Thence, Lieutenant Bernard turned inland and followed the Senegal and Niger rivers to Yankton, Senegal, thence Senegal to Lokoja near the mouth of the Niger River. The interesting point here is that the distance covered between St. Louis and Lokoja by the inland route was approximately as long as the distance along the coast line, yet the pilot chose the inland route even though he flew a seaplane.

While a close inspection of the map does reveal minor routes between Lokoja and the west coast, Arabahat, it is very evident that this leg of the flight, nearly 2000 miles in length, was cross country in the usual sense of the word. From there an across the Equator the Congo River was followed until the lake region of Tanganyika and Nyanza was reached. Prior to this it is interesting to note that Lieutenant Bernard in his first boat was far from the end of his flight at least 1000 miles from the nearest coast.

The possibilities suggested by a flight of this nature are enormous. The Coast of Africa is by no means a small seaplane, yet it is apparently possible to fly a number of this class over long inland routes without danger. A seaplane operating along a route following the natural waterways of a country does not need specially prepared fields and emergency fields should carry 25 miles or so. All the expense of this part of the ground equipment is disposed with. The British air service along the Magdalena River in Colombia is proving this. It would seem, therefore, that the design of seaplanes, probably of the flying boat type, capable of accurate operations, their employment in inland air transportation seems a real possibility. Even assuming that the basic design of a flying boat is such as to prevent its ever becoming as maneuverable as the seaplane in the air, it is reasonable to assume that the seaplane in ground equipment might encounter added costs in other directions.

PICTURES I THE NEWS



CHARACTERISTIC SAVED The latest biplane profile, as it moved over the airport, was photographed and the picture. The picture is known to the biplane and is mounted with a sign for the V-100.

SEE ALAN ON THE CARPET Frank O. Delaney, the well-known English actor, has recently completed his tour in New York, the picture of the film "The Great Dictator". The picture is in view at the Chicago Theatre, New York.



P. & A. PHOTO A group of people standing on the deck of the ship "The Great Dictator" in the company of the ship's crew. The ship is in the company of the ship's crew.

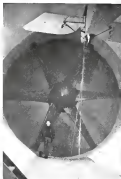


P. & A. PHOTO The biplane, which is the property of the U.S. Mail, is in the company of the ship's crew. The biplane is in the company of the ship's crew.



SHIP AT THE ICEBERG The ship is in the company of the ship's crew. The ship is in the company of the ship's crew.

JAPANESE AIR POWER The new Japanese aircraft carrier, which is the largest of its kind, is in the company of the ship's crew.



P. & A. PHOTO The large, circular object is in the company of the ship's crew. The large, circular object is in the company of the ship's crew.

AIR RESEARCH The large, circular object is in the company of the ship's crew. The large, circular object is in the company of the ship's crew.



The Navy Calls for Airship Designs

Designs for Two 6,000,000 Cu. Ft. Rigid Airships Called for in Competition.
Originalities in Design Encouraged.

DESIGN DATA and bids on the construction of rigid airships of approximately 6,000,000 cu. ft. volume, under the law as an adjunct of the fleet, are being requested by the Navy Department in a competition which will close at midnight, May 16, 1927. Designs and bids will be received as late as five rapid replies possible, or very promptly possible. Competition rules submit with each design, a price for which each design, either complete or almost complete, it will be sold to the Government. The design will be submitted to a board appointed by the Secretary of the Navy.

Two rigid airships were submitted by Congress in the five-year building program which went through last session. However, in the event that typographical are not made for security reasons, by the time the competition is under, the Secretary of the Navy will consider the question of the airship design in a price bid to exceed \$4,000,000.

Requirements of Competition

The Navy Department has specified that the airships must be constructed in the United States and only citizens or corporations of which not less than 51% of the capital stock is owned by citizens or the United States, and of which the members of the board of directors are citizens or the United States and have manufacturing plants located within the continental limits of the United States will be eligible to enter any contract under the terms of the competition.

These airships are intended primarily for scouting at sea, and use of them must essential characteristics must be a large number of sails. They will be capable of carrying machine guns, and adapted for carrying, releasing and detaching in flight several airplanes. While they may be designed primarily for the use of balloons, the possibility of using hydrogen gas as a combination of balloons and hydrogen must be considered in the construction of the interior of the ship.

The gas volume of the airships must not exceed 6,000,000 cu. ft. with an overall length not more than 750 ft., overall height not more than 125 ft., and the overall width not more than 125 ft. The airships must have a minimum speed of not less than 75 knots when flying at an altitude of 1,000 ft. through calm air, and an endurance of not less than 150 hr. at a cruising speed of 30 knots.

Scope Permitted in Design

The competition in the design competition may use any form of hull or type of ball structure they desire, the only requirements being that they must show 30 days, indicating that the form of the hull is satisfactory, unconditionally and that the ball structure is capable of withstanding the stresses induced in it by the various gravity weights such as power plant, fuel, ballast, etc.; the stresses induced by the buoyant gas, and the aerodynamic and other stresses which will be present under various conditions in flight including stresses induced by power plant arrangements and propeller thrusts and stresses that may be induced while the airship is moored or while it is being landed on the ground. The control system employed may be of any type desired by the designer.

The designs for the interior must include means of subdividing the buoyant gas, either through the use of containers or by other means, so that a rupture of one container will not result in gas losses from other containers. There must be not less than twelve gas containers or compartments, and emergency means being provided with one or more automatically opening gas valves. Road operated valves are to be provided at the top of the compartments, but not necessarily at every compartment, of sufficient total drainage capacity to permit not over 10% of the total gas volume of the ship to be discharged per minute.

The specifications for the outer cover require that it will be fast, durable, weather resistant, and lightweight, and of a type which will not absorb moisture from the atmosphere.

The control system is to be located so as to provide the least possible concentration of all crewed volume in the air and within landing. The machinery must be provided with suitable emergency means for the officers and crew. Provision for two officers and thirty-two men is considered sufficient.

The number of most important for the airships may vary from four to twelve, but not more than a few more than to be placed immediately adjacent to each other in any location on the ship. The number of propellers must not exceed twelve nor be less than four.

The recommended disposition of the engine of rigid ships is one suspended from the hull by struts and wires, is contained in a nacelle capable of being opened to the air so that the engine will be cooled by the air. The engine will be located in the tail section, and in case of a crash, the engine will be located in the tail section. The engine will be located in the tail section, and in case of a crash, the engine will be located in the tail section. The engine will be located in the tail section, and in case of a crash, the engine will be located in the tail section.

Another desirable feature for an airship is the provision of means for changing position, both up and down, to assist in taking off and in landing. The type of power plant proposed by designers must be adapted to the use of motor recovery apparatus.

Special consideration is recommended, designs and gear to facilitate the mooring of the ship to a mast, or landing the ship on the ground, and mooring it in and out of a shed must be given by designers.

The radio equipment will be installed in a separate compartment. The set must have a sending range of 2500 miles, and radio compass equipment will be required in the radio compartment. For purposes of the competition, the radio set will be required to work 300 ft. and in every direction 100 ft. The largest dimensions, exclusive of compass coils, cannot exceed 60 feet, and the radio compartment is considered to require approximately 2000 cu. ft.

His features have been listed by the Navy Department and the attention of competitors is called to them, though it is not certain that any or all of them will be included in the design.

1. Provision for making the control cables detachable and for making it not any other similar appliances suitable to the extent that they may be used in water.
2. Provision for landing the airship.
3. Provision for making the control cables and lifting apparatus in the airship.
4. Provision for fuel and oil from another fueling.
5. Installation of a photographic instrument.
6. Use, or partial use, of suitable combustible gas to fuel.

Feature Points in Design

Each design submitted to the Navy Department will be judged on the following fifteen points or items. Percentage values are assigned to each item:

ITEM	PERCENTAGE
Design and volume capacity	25
Provision for making the control cables detachable and for making it not any other similar appliances suitable to the extent that they may be used in water	10
Provision for landing the airship	10
Provision for making the control cables and lifting apparatus in the airship	10
Provision for fuel and oil from another fueling	10
Installation of a photographic instrument	10
Use, or partial use, of suitable combustible gas to fuel	10
Provision for making the control cables detachable and for making it not any other similar appliances suitable to the extent that they may be used in water	10
Provision for landing the airship	10
Provision for making the control cables and lifting apparatus in the airship	10
Provision for fuel and oil from another fueling	10
Installation of a photographic instrument	10
Use, or partial use, of suitable combustible gas to fuel	10

Side Slips

By HAROLD W. ORANGE

The newspaper printing long articles recently, announcing that the Navy Department was opening competition for designs and bids for new types of rigid airships. The principal data which must be considered in the design was also given to the airship—cruising speed of not less than 75 "knots per hour," avoid dimensions not to exceed 750 ft. by 125 ft. by 125 ft. gas volume not to exceed 6,000,000 cu. ft., and so on. Although no word at all of the article very carefully, we could find an indication that the ships must be equipped with wireless capable of sending at least a voice message during. In spite of our being attentive to the fact that the British are building an airship now which has equipped on board for carrying a voice message during, the Navy officials desire to change the airship—perhaps. Suppose a war ship put up as an example? The answer would be very much surprised to find our attention turned to the most modern and efficient airships, and they won't be able to say that we didn't warn them about it.

However, this may all be part of the President's policy for the limitation of armaments—may even have a Committee for Limitation of Arms. Suppose the Navy officials find it this is the case, will take it all back. We do think, though, that the other nations should be told to the S-50 club, such.

While we are still on the subject of airships, we take the liberty of pointing out an expression commonly expressed by a writer in "Life's magazine"—"If the next decade will record 'the Panama' and not bigger and better in every way than

the Los Angeles, the northern half of California plans to migrate from the States and across the Gulf to Japan."

The phrase of a good rise between a privately-owned, apparently built Packer machine, and New York, is to be the first to make a one-day flight to Hawaii, where some excitement for the future. It is hoped that the first flight of the Commonwealth, in building the flight, has in mind only as a record in preventing aviation or a little advertising for the new line. There are quite a few other ways, if the attempt should show an interest in an airplane capable of proceeding there with reliable rapid transit to distant parts unknown, the aggressive party would demand that the city should be notified.

The paper state that "moving inland" or flying flying stations will shortly be put into operation on some European airlines, permitting traveling without landing. Experiments along this line have been going on for some time over here, but the actual placing of this type of plane into commercial use will probably have a tremendous effect on our own architecture of the future. In a very few years the separate flying station located from a base with a few miles in land into the ground, has become largely with limited attempts to achieve landing in the air itself. So it may not be long before the beautiful air yacht, as we please by, will be only a wonderful flying station in the air and for the flying station is used as another place of rest.

We had only a few moments to inspect the Brown airplane submitted by Mr. Ford at the New York show room, but we were struck by its design is immediately apparent—the machine is only about 100 ft. long. However, the machine is as well as on the ground, because that the motor shall be able to take the plane out for a run—so show how the flight plane can pass all the higher speed planes on the steep climb.



THE LOENING AMPHIBIAN NAVY SHIPBOARD PLANE
Powered with 500 h.p. Inverted Packard Engine
Equipped with

SCINTILLA

Aircraft Magnetos

SCINTILLA MAGNETO COMPANY, INC.

Contractors to the U. S. Army and Navy. SIDNEY, NEW YORK

FOREIGN AERONAUTICAL NEWS NOTES

By Special Arrangement with the Automotive and Transportation Divisions,
Bureau of Foreign and Domestic Commerce

Air Passengers Buy Insurance With Tickets

By an arrangement entered into by the Deutsche Luftlinien and the Stuttgarter Versicherungs-Verein (Stuttgart Insurance Corporation), air passengers in commercial airplanes of the former company are insured to the amount of 55,000 reichsmarks, or about \$9,000. The insurance is turned automatically to the United States as soon as the passenger is on the part of the air passenger, the insurance first being included in the price of the ticket.

The policy covers any injuries sustained by a passenger, or death, as a result of an accident on board of a plane, or by the crashing of the plane or while in a passenger, including any injuries which might be sustained as a result of leaving the vehicle. Injuries or death occurring while en route to or from airplanes are also included in such insurance, if such transportation is supplied by the aviation company.

In the event that a passenger is killed in an accident, his heirs or legal representatives receive 55,000 reichsmarks. The same amount is paid to a passenger in case of permanent disability. If a passenger becomes ill or temporarily disabled as a result of injuries sustained in an accident, he is entitled to a payment of 75 reichsmarks for every day he is prevented from following his profession.

Additional insurance may be taken out at any office of the Luftlinien or its affiliated companies, as well as at all agencies for these companies, by signing an application therefor.

The lowest amount of additional insurance which may be taken out is 5,000 marks (\$800). Another 5,000 (double), \$800 (triple), the maximum is 100,000 marks (\$16,000). Death, 50,000 (double), 100,000 (triple).

No additional insurance is granted on passengers' baggage and freight shipments must be arranged for independently of the rate of one mark per thousand. The policy covers all risks (explosion, fire, destruction, theft, loss, etc.).

On the route to London, which is operated jointly by the Deutsche Luftlinien and the Imperial Airways, automatic life insurance is contracted on German airplanes. On other routes, passengers are insured by British underwriters; the common law two dollars (double) for each 250-300 Reichsmarks of insured risk. The terms are similar to those authorized by the German company.

The Luftlinien states that the insurance company is doing a very satisfactory business under this plan, owing to the small number of accidents which have occurred since the inception of the insurance system.

Argentine Decree Regulates Civil Aviation

The regulations of civil aviation in Argentina were established recently by the promulgation of an Argentine decree. The regulations affect the equipment and operation of airplanes, the licensing and qualifications of pilots, the conduct of aviation schools and similar matters.

Official reports on the provisions of the new regulations state that they are extensive and precise, and begin by classifying the airplanes for state, public transport, domestic and international purposes. Chapter II, according to these reports, deals with aircraft and houses the civil pilots of airplanes and hydroplanes, which are divided into three classes. The first class civil pilot license gives the right to carry passengers, the second class license gives a right to render service in public transport line, and the third class gives the right to make individual leisure flights without passengers.

The women are to be granted by the Director of the Air Service of the Army, and by the Directors of the Service Aeromarine Naval.

The title of military pilot and pilot of hydroplanes are equivalent to second class license, those of military aviator and pilot of hydroplanes are equivalent to second class license and those of military and naval pilot aviator to first class license. No person may desert or be absent without authorization from the Servicio Aeromarine del Ejército or the Director General Naval.

For the civil pilot of the third class, the candidate must be eighteen years of age at a minimum, have completed, for at least eight hours instruction with double command and three hours of practice flying alone, and a similar examination to that demanded by the Aero Club Argentino at present.

For second class pilot the candidate must be twenty years of age at a minimum, possess a civil license of better condition with independence of at least six months' flight, have obtained as a minimum ten hours flight over the country, and pass an examination.

The first class civil pilot the minimum age of the candidate is twenty-five years; they must have a second class license for at least a year previous, and must show proof of having obtained twenty hours flight in the last year. His must also pass a practical examination.

The license of airplane civil pilot shall be granted by the Aero Club Argentino, issued by the Department of Civil Aviation of the Argentine Service of the Army. This license recognizes ability to effect flights and journeys with passengers in airplanes of any size.

Detailed specifications are also given of the examination to receive the title of pilot of airplanes, also divided into three categories.

In the third chapter the functions required for the use of balloons are also established, the principal one being that for the purpose of obtaining the qualifications of use of balloons the candidate is established. The principal one is to be qualified for use of balloons. It is necessary to obtain it in an examination and be included in a special registry.

The conditions of the balloons, and the air traffic within them or in their surroundings, are the object of very severe rules, as likewise the flying of airplanes over the Argentine territory.

Dutch Air Traffic Operations During 1926

The operations of the Dutch Air Traffic Company, during the 1926 flying season, as compared with 1925, were as follows: Rotterdam-South, 1925, 394,117; 1926, 391,954; number of passengers carried on the regular routes, 1,124 and 1,073; number of passengers carried on pleasure flights at Copen-hagen, 3,264 and 3,984; goods and baggage received (kilograms), 21,126 and 20,300; mail carried (kilograms) 2,020 and 1,070; mail weight carried on regular routes (kilograms), 207,085 and 187,281; quantity of traffic, in thousands 86.6 per cent to Calcutta, 84.4 per cent. This company maintains connections between Copenhagen-Hamburg and Copenhagen-Göteborg.

The decrease in the number of passengers carried is due to delay in the delivery of new planes purchased by the company, but lack of confidence on the part of the public in the new equipment is also believed to have been in part responsible for the decrease. Besides the service authorized by the company, six line connections with the continent were maintained during the season by both a Swedish and a Dutch company.

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Detroit, Mich.

A large appropriation has been awarded in Detroit. It is to be known as the Modern Pershing Club, and its purpose is to encourage the use of modern planes and discourage the use of obsolete types.

The club has no charter members, five of whom have led the present cause for pershing support of the Army and have made from three to six hundred stamps.

Members will be expected to take out and repair pershing stamps for aircraft in the vicinity and a course of instruction in stamping will be given. No one will be permitted to perform pershing stamps, nor given by the Air Corps, at Charley Field.

The club will purchase several pershing stamps for the purpose of instruction.

Gainesville, Ga.

A new 119 ft by 12 ft, with letters ten feet high, bearing the words Gainesville, Ga., has been painted on the roof of the new factory building of the Gainesville Cotton Mill, as a guide for fliers. The Detroit Mfg. Co., of New Britain, Conn., has also completed a sign of the same size on its Gainesville plant. The letters of both these signs are white against a black background. S.E.S.W. also appears in the sign. New Britain is 110 miles west of Gainesville and Gainesville is 110 miles west of Gainesville.

Des Moines, Iowa

John M. Wilson, who has taken at least 1,000 passengers on their first flight, has engaged some interesting facts regarding aviation in Des Moines. He estimates that every tenth man and woman in the city has already flown, making a total of 30,000 within a radius of fifty miles of Des Moines who have gone for a trip. Mr. Wilson, who was a flier during the war, and is now a reserve pilot, feels that there are forty men in the city who can fly a plane, his men who have undergone the two week Army reserve training course every year, twenty people who own planes in the city and thirty in the rest of the state.

Mr. Wilson, who is a director of the Des Moines chapter of the National Aeronautic Association, recently flew to Chicago in 4 hr. 27 min. It is also a state inspector of planes, appointed by the Governor.

It is Mr. Wilson's belief that it is possible to land in Iowa from any point in the air with perfect safety.

Lordburg, N. M.

Speaking before the Lordburg Luncheon Club recently, Donald Wills Douglas, designer of the Douglas plane, told his audience that the field at Lordburg ranked with the best in the country.

He declared the progress of his company, Mr. Douglas said that five years ago it employed forty men and made one plane every two or three months. It now employs 250 people and turns out one plane a day.

Dear to Mr. Douglas' address, Lord, Ohio, and, production center for the Air Service at the West coast, making transportation the city on its airport.

Philadelphia, Pa.

The Lakeside Flight Club Company who have operated the Lakeside Flight Field for the past three years, have recently added into their quarters of the Lakeside Flying Field which they are operating under their own name the Lakeside Philadelphia Flying Service, Inc. They have added a large modern heated shop building which is supplied with adequate shop facilities as well as store rooms, maintenance shop, club house, etc.

They are equipped the field with complete land lighting for night flying and are putting in all sorts of facilities to make this airport what is completed one of the best equipped in the East. The field is only six miles from City Hall and with the service and equipment which the Lakeside Company is providing Philadelphia is a center of aviation in the present airport in the continental world.

James E. Spalding, the well-known Detroit, Michigan pilot and "old" flier, the chief pilot of the Lakeside Philadelphia Flying Service, demonstrating a standard Vought 9c on its first flight from the Philadelphia Municipal Field and in fifteen minutes were clearing with Vought standard on Cato Field, Garden City, Long Island.

Little Rock, Ark.

The future of the Arkansas Airport Co., which is now 100 ft by 100 ft, is being entered to permit complete aerial planes being taken in and out. While the work is going on, if Martin Cook, chief engineer, is designing a new plane for the company.

The field adjacent to the future is being graded and cleared of obstructions, and it is believed that when this work is done the airport will have a new field of its own.

Transit Company Will Use Service Plans

The Interstate Transit Company, which operates a line of Pacific airway lines between San Francisco, Cal., and Portland, Ore., has purchased a 200 hp. Pottier plane, which will be used at a service place for carrying parts in the line in case of breakdowns. It will be held in readiness in San Francisco at all times.

This service plane will not be used for passenger travel except in rare cases. In the event that a passenger who has a very important business engagement cannot be sent, he will be taken to the nearest landing field between San Francisco and Portland and placed aboard the line.

Spokane, Wash.


Jack Mower, general commercial flier, has acquired the distribution agency for the new Spokane plane, for the Washington, Idaho and Montana territories. He operates from the municipal flying field under the name of Mower Flying Service, and his headquarters are at his hangar, located in the field. Mower has been operating a flying school and service at Spokane for the past seven years. During the summer months he is chief pilot for the U. S. Forest Patrol, for District 1.

A complete flying and ground course is offered students at the school, and a passenger, two and several commercial flights are offered the public. Aviation planes are used for taxi work.


The first arrival of new Spokane, four of which are sold, is expected to arrive in Spokane about Feb. 1. Preparation is now being made for a new service, its statistics are already supplied with the Mower Flying Service for the spring business class. Ralph Shapard has been engaged to maintain instruction.

Dr. F. F. Lantz, Flight Service, Spokane, Wash. and Penn State have purchased Spokane plane from Mower.

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Enst. Monroe B. Teller det. Nav. Air Sta., Pensacola, to VO Squad 6, Airt. Squad, Ship Fleet.
Navy Air Orders.
Lieut. Monroe F. Eddy det. Nav. Ops., Annapolis, to VO Squad, One, Airt. Squad, Battle Fleet.
Lieut. Conde James H. Beauchamp det. VT Squad Two, Airt. Squad, Battle Fleet, for duty in Diego det. Rec. Ave.
Lieut. Conde Robert D. Kirkpatrick det. as Chief of Aircraft, Rec. Ave., for duty in Airt. Sq. Atlantic, London.
Lieut. H. C. Fawcett appointed Chief of Atlantic Div.
Lieut. Conde Robert H. Francis det. Rec. Ave., Navy Dept., to USS Lexington.
Lieut. Kachler transferred det. VA Squad, One, Airt. Squad, Ship Fleet, to command VF Squad Two Airt. Squad, Ship Fleet.

Lieut. Alan P. Brady det. Rec. Ave., to VO Squad 4, Airt. Squad, Ship Fleet, USS Arkansas.
Lieut. Conde Isaac Schickel det. command VF Squad Two, Airt. Squad, Ship Fleet, to command VF Squad 6, Airt. Squad, Ship Fleet.
Lieut. (jg) Dalton S. Carroll det. VO Squad 6, USS Clark, Airt. Squad, Ship Fleet, to VF Squad 6, Airt. Squad, Ship Flt.
Lieut. Stewart S. Reynolds det. N.A.S., San Diego, Cal., to USS Nevada.
Lieut. William L. Peterson det. USS Raleigh to VO Squad 5, Airt. Squad, Ship Fleet, USS Chester.
Lieut. (jg) Abbie D. Nelson det. VO Squad 5, USS Concord, Airt. Squad, Ship Fleet, to VF Squad 5, Airt. Squad, Ship Fleet.
Lieut. Arthur W. Radford det. VO Squad, One, USS Colorado, to VO Squad, One, USS Pennsylvania, Airt. Squad, Battle Fleet.
Enst. Breckinridge E. Nield to Airt. Squad, Ship Fleet. Orders Rec. 13 modified.
Lieut. William U. Davies det. Nav. Med. Sch., Washington, to Nav. Air Sta., Annapolis.
Lieut. (jg) Edward J. Harris det. Nav. Air Sta., Annapolis, to Nav. Med. Sch., Washington.

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It is hoped that many airlines will be made and our readers are requested to send any corrections, additions or suggestions that they may have. Copyright, 1937 by Gardner Publishing Company.

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